

WHAT IS CLAIMED IS:

1. A wearable radio configured to be used with a hat, comprising:  
a flexible laminate capable of at least partially encircling the head of a user;  
said flexible laminate bearing thereon a radio circuit and a printed antenna,  
said printed antenna being configured on said laminate to have a length of at least  
about 5 feet;  
a power source effective to power said radio circuit; and  
an earphone connected to said radio circuit.
2. The wearable radio of claim 1, wherein said radio circuit is limited to  
receiving a single frequency.
3. The wearable radio of claim 1 further comprising a hat associated with said  
laminate.
4. The wearable radio of claim 1 further comprising a hat attached to said  
laminate.
5. The wearable radio of claim 1 wherein said radio circuit is substantially  
printed on said laminate.
6. The wearable radio of claim 1 further comprising a hat associated with said  
laminate positioned such that said earphone extends below an ear section of  
said hat.

7. The wearable radio of claim 1, wherein said printed antenna is configured to occupy less than about 70 cm<sup>2</sup> of area of said printed laminate.
8. The wearable radio of claim 1, wherein said printed antenna is configured to occupy an area on said printed laminate that is less than about 14 cm<sup>2</sup> per foot length of said antenna.
9. The wearable radio of claim 1, wherein said power source is at least one of a printed battery and a solar cell.
10. The wearable radio of claim 1, wherein said power source includes at least a solar cell positioned at one of a top of said hat and a lip of said hat.
11. The wearable radio of claim 1, wherein said radio circuit includes at least one printed resistor.
12. The wearable radio of claim 1, wherein said radio circuit includes at least one printed capacitor.
13. The wearable radio of claim 1 wherein said antenna is at least partially one of zig-zag, back-and-forth, and spiral.
14. A wearable radio, comprising:  
a flexible sheet of paper;

a printed antenna printed on said flexible sheet of paper, said printed antenna being configured on said flexible sheet of paper to have a length of at least about 5 feet and an area of less than about  $14 \text{ cm}^2$  per foot length of said antenna;  
a printed power source printed on said flexible sheet of paper;  
radio circuitry on said flexible sheet of paper, said radio circuitry including a printed circuit pattern that connects said printed antenna, said printed power source, and circuit elements of said radio circuitry; and  
a speaker element connected to said radio circuitry.

15. The wearable radio of claim 14, wherein said radio circuitry is limited to a receiving a single radio frequency.
16. The wearable radio of claim 14, wherein said speaker element is a printed speaker.
17. The wearable radio of claim 14, wherein said speaker element is an earphone.
18. A wearable radio, comprising:  
a flexible and foldable substrate;  
a printed antenna printed on said substrate, said printed antenna being configured on said substrate to have an area of less than about  $14 \text{ cm}^2$  per foot length of said antenna, and said antenna being sufficient to receive a transmission at a venue having a transmitter associated therewith;

radio circuitry on said substrate, said radio circuitry including a printed circuit pattern that connects said printed antenna and circuit elements of said radio circuitry;

a power source effective to power said radio circuit; and

at least one of a speaker element and an earphone connected to said radio circuitry.

19. The wearable radio of claim 18, wherein said radio circuit is limited to receiving a single frequency.
20. The wearable radio of claim 18, wherein said printed antenna is less than about 5 feet in length.
21. The wearable radio of claim 18, wherein said power source is at least one of a printed battery and a solar cell.
22. The wearable radio of claim 18, wherein said radio circuit includes at least one printed resistor.
23. The wearable radio of claim 18, wherein said radio circuit includes at least one printed capacitor.